SARL Top Band QSO Party 17 – 20 June
SARL Digital Contest 27 June

SARL Youth Day

Thank you to all the operators that made their homes and shacks available to the youth on Wednesday. Now you must ensure that all the participants fill in a log sheet and post it to SARL Youth Sprint, PO Box 1049, Kathu, 8446 or email it to youthsprint@sarl.org.za before or on 1 July 2010. All participants under 26 will receive a certificate.

Name the CubeSat project

SA-AMSAT is inviting radio amateurs to propose a name for its CubeSat project. The project was announced at the recently held Space Symposium and will involve the design and construction of a CubeSat. A CubeSat is a 10 cm cube with a mass of up to 1 kg.

The project name should be a single word in any of South Africa's official languages and reflect the spirit of the project. A good example is the name given to the around-the-world-balloon project, which is called "lalela", the Zulu word for "listen". The winning entry will receive a satellite handbook. Entries should be sent by e-mail to saamsat@intekom.co.za. The closing date is 15 July.

DXCC News

Bill Moore, NC1L, ARRL Awards Branch, reports that the following operation is approved for DXCC credit - E4/7K1REG – Palestine, 2000 Operation.

If you had this operation rejected in past submissions, send a note to dxcc@arrl.org. Please note the year in which this credit was rejected based on the date at the top of your Award Credit Slip.

Note, DXCC may not reply to all requests due to the possibility of a large amount of mail. You can confirm that your record has been updated by checking in these places:
• Your LogBook of The World account
• Your total(s) in the live daily DXCC listings

Results of the Antique Wireless Association HF QSO Party

The AWA HF QSO Party took place on 8 and 9 May 2010.

The following are the results from the AM section: 1st Jan Botha, ZS4JAN; 2nd Theunis Potgieter, ZS2EC; 3rd the AWA station operated by ZS6ADY. 54 stations took part in the AM section but there were only three logs received, which was disappointing after such a good turnout on the bands.

In the SSB section – 1st Jan Botha, ZS4JAN; 2nd Pieter Bosman,

South African Radio League 1925 – 2010 Suid-Afrikaanse Radioliga
Member Society of the International Amateur Radio Union Region 1
HF Happenings via Yahoo Groups HF_Happenings-subscribe@yahoogroups.com

ZS3AOR; 3rd Theunis Potgieter, ZS2EC. In the SSB section 91 stations, participated and only four logs were submitted with one check log from ZU1BEN.

Our thanks to all those who took part in the contest.

Results for the SARL 85th Anniversary Sprint

The SARL 85th Anniversary Sprint was held on 16 May 2010. Although this contest was organised at the last minute, it was great to see so many stations on the air. Forty-nine logs were received, forty-six logs were submitted electronically and three via snail mail. Looking at the logs received, there were 237 stations on the air.

Once again, I am appealing to contesters to check their logs thoroughly before submission. The following errors were found in the logs - 1. Wrong call signs. 2. Duplicate call signs (within the same band and mode). 3. Times in CAT and not UTC. 4. RST reports. There was one station that gave an incorrect RST, which resulted in a loss of 3 points per contact.

Congratulations to all the winners and runner-up's, and a big thank you to all who submitted logs.

Pam Momberg, ZS6APT, won the lucky draw prize and Mitchell Mynhaardt, ZS6YH, won the U18's section.

1st Jan Botha, ZS4JAN, 232 points
2nd Wessie Wessels, ZS2A, 147 points
3rd Philip Esterhuizen, ZS4PJ, 144 points
4th Johan van Aarde, ZS2I, 143 points
5th Thian de Jager, ZS2Y, 139 points
6th Mitchell Mynhaardt, ZS6YH, 128 points
7th Pam Momberg, ZS6APT, 118 points
8th Theunis Potgieter, ZS2EC, 109 points
9th Pierre van Deventer, ZS6BB, 107 points
10th Geoff Levey, ZS6GRL, 106 points
11th Dennis Green, ZS4BS, 102 points
12th Marius Preston, ZS4MP, 88 points
13th Dennis Wells, ZS1AU, 85 points – the only person who got it right! 85th Anniversary Sprint and he scored 85 points. Well done Dennis!
14th Derek Stuart, ZS2J, 79 points
15th Dirk Els, ZS6AKU, 64 points
16th Riaan Greef, ZS4PR, 63 points
17th Hannes Coetzee, ZS6BZP, 60 points
18th Ivan Lusic, ZS6IL, 59 points
19th Eddie Leighton, ZS6BNE, 58 points
20th Pieter Human, ZS6PA, 55 points
21st Jaco le Roux, ZS3JLR, 53 points
22nd Allan Wood, ZR1AAH, 52 points
23rd Petrus Coetzee, ZU6PJ, 48 points
24th Johan van Vuuren, ZS6JVV, 45 points

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25th Kevin McDonald, ZS6KMD 42 points
26th Rory Crouch, ZR6RBJ; Charles le Roux, ZS1CF, and Casey Nootenboom, ZS1AAS, 41 points
29th Rassie Erasmus, ZS1YT, 38 points
30th West Rand ARC, ZS6WR, and Garfield Blake, ZR6ESJ, 36 points
32nd Petrus Delport, ZR6BVS, 34 points
33rd Martin Harris, ZS4ISH, 33 points
34th Leon Lessing, ZS6LMG, 32 points
35th Dirk Lotz, ZS1X, 31 points
36th Ashley Ware-Lane, ZS1ASH, 30 points
37th Romeo Nardini, ZS6ARQ, 29 points
38th Johannes Geldenhuys, ZR2JG, and Evan Seligman, ZS6ELI, 28 points
40th Michael Roodt, ZS6BHF, 26 points
41st Johan Terblanche, ZS1I, 25 points
42nd Vidi la Grange, ZS1EL, and Gawie Hoon, ZS5R, 23 points
44th Bruce Dunn, ZS5XT, 22 points
45th Willie Axford, ZS5WI, and Juan Eduardo Genovart, ZR6DAY, 18 points
47th Russell John Mycroft, ZS1VK, 13 points
48th Benjamin Scholtz, ZU1BEN, 10 points
49th Willem Weideman, ZS6WWJ, 8 points

Results of the SARL 80 m Club Championship

Eight logs were received for the SARL 80 m CW Club Championship held on Wednesday 26 May 2010.
1st Antique Wireless Association, ZS0AWA, 38 points and 5 logs
2nd West Rand ARC, ZS6WR, 12 points and 2 logs
3rd ZS Contest Group, 9 points and 1 log

After the third leg the results are as follows
1st ZS Contest Group, 105 points and 5 logs
2nd Antique Wireless Association, ZS0AWA, 97 points and 9 logs
3rd West Rand ARC, ZS6WR, 80 points and 12 logs
4th Port Elizabeth ARS, ZS2PE, 63 points and 2 logs
5th Sasolburg ARC, ZS4SRK, 31 points and 1 log
6th Lichtenburg ARC, ZS6LRK, 17 points and 1 log
7th Secunda ARC, ZS6SRC, 4 points and 1 log

Well done to the Antique Wireless Association and the West Rand ARC for getting your club members active.

Optimizing wire antennas online

GRADMAX for Web is a Java applet for analysing and optimizing wire antennas. The analysis algorithm is based on the point-matching technique of the Method of Moments (MIN-INE engine), and the optimization layer employs the modified gradient method. GRADMAX for Web is designed for the Internet, and runs directly from the Web browser on all common operating systems (Windows, Macintosh, Linux, Solari, etc.)

Read the article 'Analysis and Optimization of Wire Antennas over the Internet' at http://www.ene.unb.br/images/terada/antennas/gradmax/mt_mag_ap_feb_2010_color.pdf

The online Java application is at

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http://www.ene.unb.br/images/terada/antennas/gradmax/index.htm
GradMax source code - http://www.ene.unb.br/images/terada/antennas/gradmax/
Thanks to Greg Mossop G0DUB for spotting this item

Tony's 10-metre band report
[Tony Dixon, G4CJC]

An odd mix in the week with Monday and the following Sunday being the best days. Some DX about and the criterion for entry into the list is now changed to Five reported contacts.

Edward, M6ECH, (MA3009SWL), heard the following on Monday - DG0OEA 5/8, SP5ANG 5/8, RZ6MD 5/8, EC5SP 5/8, IK2ODD 4/8, EA2DNY 5/9, EA7IC 5/8, OK2TSN 5/8, 9A2NA 5/9 and EA2AAZ 5/9. He comments, "*It was a good opening this afternoon.*"

Dave, VK5MRD, sent in this little snippet that I had not seen before but the Editor may have. "You may have heard of this one already, but I thought I would fill you in if you have not. This is taken from the weekly WIA news."

"Stuart, VK8NSB, has now got a SSTV Repeater operational on 28,700 with a 1750 Hz tone, currently running 10 watts into a Multiband vertical. The SSTV Repeater is currently in test mode and transmits a picture every 30 minutes on the hour.

Stuart reports that the power output will be increased in time and the system placed on its proper antenna, a 10 m Vertical at about 12 metres high as soon as the first stage of testing is complete. Stuart requests that reports be e-mailed."

Spratly Islands, DX0

Jim Linton, VK3PC, DX0DX Public Affairs, reported to OPDX on 13 June (edited): "Team Leader Chris Dimitrijevic, VK3FY, has just returned from The Philippines where he held high level discussions related to the DX0DX DXpedition being held in January 2011.

A series of meetings included one with the current Municipal Mayor of Paga-Asa (Thitu Island) where the DXpedition will be mounted. Later he met with the Mayor-Designate who will take office in September, and at that time, the current Mayor becomes the Vice-Mayor.

Other discussions were held with military authorities plus officials of the IARU member radio society, Philippines Amateur Radio Association (PARA) which is strongly in support of the DXpedition.

Chris, VK3FY, said, 'Those face-to-face discussions enabled the amateur radio and humanitarian aims of the DXpedition to be fully explained and agreed, and also clarified the requirements of both local and federal authorities.

The result has been universal support for the activity. The next step is to complete the necessary immigration procedures for each non-Filipino national radio amateur that will be part of the DXpedition. Once that is completed a formal letter of approval is to be issued.

The team is mindful that it not only has to meet the requirements of The Philippines authorities but also those of the DXCC Committee to have the DXpedition accredited.'

At the 2010 PARA Hamvention and 17th International Grand Eyeball, 4 – 6 June, Ed Valdez, DU1EV, who will on the DX0DX team, made a presentation on the two previous DXpedition to the island (DX0K 2005 and DX0JP 2007), and finished off by announcing the January 2011 DXpedition.

The announcement of such a major proposed activation, in terms of numbers of operators (30) and duration (3 weeks) resulted in a standing ovation being given to that news. Ed, DU1EV, and Chris, VK3FY, spent a lot of time talking to some of the 300 delegates who were keenly interested to learn all they could about it. The next few months will be extremely busy

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with further work on arranging supplies, logistics, customs clearances, and finalizing sponsorship and funding support.

A multi-nation team of 30 radio amateurs will operate ten HF stations - CW (4), SSB (4) and RTTY (2), plus a VHF/UHF station on 6 and 2 m, 70 and 23 cm. That range of stations appears best suited in response to the known demands of the DX community.

Sponsorship support has so far come from ICOM America, Ham Radio Outlet, Spiderbeam, WX0B Array Solutions, Heil Sound and DX Engineering. Individual donations via PayPal are welcome.

'The team is highly motivated with each individual member preparing themselves for the trip to the Philippines and then on to island for this major DXpedition,' concluded Chris VK3FY." For more details visit http://www.dx0dx.net

Pirate

TS7C was a DXpedition to Kerkenah, Tunisia in January 2009. The call sign is unique and has not been reissued. So take note that all 2010 activity under this call sign is piracy. From 1 May to 16 June nineteen [19] records were found in 1 020 519 spots in the database for TS7C.

African DX

Marion and Prince Edward Island, ZS8, IOTA AF-021. Pierre, ZS8M, was very active especially on 20 and 17 m during the last week. Listen for him on 14240, 14245, 18132 and 18140 kHz from 06:30 – 09:30 UTC and 12:30 – 15:30 UTC. Meanwhile his post-box has changed. The new QSL route is now (immediately active): Pierre D. Tromp, PO Box 1151, Worcester, 6850, South Africa. If someone has already sent his QSLs to PO Box 1481, it is not necessary to send them again because the mail is forwarded automatically.

Annobon Island, 3C0C. Operators Elmo, EA5BYP, (SSB and RTTY) and Javi, EA5KM, (CW and SSB) are now active as 3C0C from Annobon Island (AF-039) until 20 June. Activity will be on 160-6 meters using CW, SSB and RTTY, with an emphasis on the lower bands and CW. They will try to have two stations on the air, but remember that they are only two operators, so please be patient. On their Web page they reported on 13 June, that due to strong storms some antennas were destroyed. On Monday, 14 June, 3C0C will not be active, and the team will be standby to repair all the antennas once again. They state, "....many QRM on top bands, so was not possible be on the air on 80 and 160 m. Anyway, they will try next days. A couple of days ago they have some problems with one of the power generators... as you can see this is not a Resort and they are tired. In next days, they will try to work more for NA, at the moment the propagation was not very strong. They are making a big effort to be on the air." For more details and updates on the 3C0C DXpedition, visit their Web page at http://www.3c0c-annobon.com

Burkina Faso, XT2. Members of the "VHF DX Gang" will be active as XT2EME from an orphanage (La Maison du Coeur) in Ouagadougou between 15 July and 2 August. Operators mentioned are Andre, HB9CVC, Peter, HB9HLV and Ludovic, HB9EOU. The founder, Mrs. Josette Boegli, is from Switzerland and Peter, HB9HLV, has been involved in the activities of the orphanage for more than ten years. The group's goal is to make 20 000 QSOs on CW, SSB and PSK. QSL via HB9HLV. The group will be announcing a XT2EME Web page for details about their activities in XT2-land, as well as sponsors and donations for the orphanage (via a PayPal account) very soon. The "VHF DX Gang's" Web page is available at http://www.hb9eme.ch

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Club News

ZS4LB is the call sign of the Leeuwberg Museum just south of Bloemfontein. The call sign will be activated for the first time on Saturday 19 June with the Operation Barbarossa commemoration at the Museum – this entails a mock battle with armoured vehicles and Russian and German uniforms, weapon displays and other activities arranged by the Free State branch of the SA Weapon and Ammunition Association.

Members of the Bloemfontein Radio Amateur Club will be on the air with ZS4LB on 40 metres as well as 2 metres.

Pretoria Amateur Radio Club Mega Flea Market, 26 June 2010. The next ZS6PTA Mega flea market, as advertised on Swop Shop for the past 3 months, will be held on Saturday 26 June at the Pretoria Motor Club in Silverton from 08:00 to 11:00. For more information or to book a table please contact Almero, ZS6LDP on his new number, 083 938 8955. You can also send an email to almero@up.ac.za

Contest Calendar

This week's contests compiled by Bruce Horn, WA7BNM. The period covered is 14 June to 21 June 2010.

ARRL June VHF QSO Party
18:00 UTC 12 June to 02:59 UTC 14 June
Mode: All
Bands: 50 MHz and up
Classes: Single Op – Low or High Power; Single Op Portable; Rover; Limited Rover; Unlimited Rover; Multi-Op; Limited Multi-Op
Exchange: 4-character grid square
Work stations: Once per band per grid square
QSO Points: 1 point per 50 or 144 MHz QSO; 2 points per 222 or 432 MHz QSO; 3 points per 906 or 1 296 MHz QSO; 4 points per 2,3 GHz (or higher) QSO
Multipliers: Each grid square once per band
Score Calculation: Total score = total QSO points x total mults
Submit logs by: 02:59 UTC 14 July 2010
E-mail logs to: JuneVHF[at]arrl[dot]org
Mail logs to: June VHF, ARRL, 225 Main St., Newington, CT 06111, USA
Find rules at:
http://www.arrl.org/june-vhf-qso-party

SARL Youth Day Sprint
08:00 - 10:00 UTC 16 June
Mode: SSB
Bands: 40 m Only

Classes: (none)
Exchange: RS and age
Submit logs by: 1 July 2010
E-mail logs to:
zs3tg[at]vodamail[dot]co[dot]za
Mail logs to: SARL Youth Day Sprint, PO Box 1049, Kathu, 8446, South Africa
Find rules at:
http://www.sarl.org.za/public/contests/SARL%202010%20Contest%20Manual.pdf

RSGB 80 m CW Club Championship
19:00 - 20:30 UTC 16 June
Mode: CW
Bands: 80 m Only
Classes: (none)
Exchange: RST and serial no
QSO Points: 1 point per QSO
Multipliers: (none)
Score Calculation: (see rules)
Submit logs by: 23 June 2010
Upload log at:
http://www.rsgbcc.org/cgi-bin/hfenter.pl
Mail logs to: (none)
Find rules at:
http://www.rsgbcc.org/hf/rules/2010/r80mcc.shtml

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NCCC Sprint Ladder
02:30 – 03:00 UTC 18 June
Mode: CW
Bands: 160, 80, 40 and 20 m
Classes: Single Op
Max power: 100 watts
Exchange: (see rules)
Work stations: Once per band
QSO Points: NA station: 1 point per QSO; non-NA station: 1 point per QSO with an NA station
Multipliers: Each US state (including KL7 and KH6) once per band; Each VE province once per band; Each North American country (except W/VE) once per band
Score Calculation: Total score = total QSO points x total mults
Submit logs by: 20 June 2010
E-mail logs to: (none)
Post log summary at: http://www.hornucopia.com/3830score/
Mail logs to: (none)
Find rules at: http://www.ncccsprint.com/rules.html

All Asian DX CW Contest
00:00 UTC 19 June to 24:00 UTC 20 June
Mode: CW
Bands: 160, 80, 40, 20, 15 and 10 m
Classes: Asian Single Op Single Band – High or Low; Non-Asian Single Op Single Band – High; JA Single Op Multi Band – High, Low, Junior or Silver; Asian Single Op Multi Band – High or Low; Non-Asian Single Op Multi Band – High; Multi-Single; Multi-Multi
Max power: HP: >100 watts; LP: 100 watts
Exchange: RST and 2-digit age
Work stations: Once per band
QSO Points: (see rules)
Multipliers: Asian Stations: DXCC entities once per band; non-Asian Stations: Asian prefixes once per band
Score Calculation: Total score = total QSO points x total mults
Submit logs by: 31 July 2010
E-mail logs to: aacw[at]jarl[dot]or[dot]jp
Mail logs to: JARL, All Asian DX Contest, CW, 170-8073, Japan
Find rules at:

http://www.jarl.or.jp/English/4_Library/A-4-3_Contests/2010AA_Rule.htm

SMIRK Contest
00:00 UTC 19 June to 24:00 UTC 20 June
Mode: CW, Phone
Bands: 6 m Only
Classes: Single Op
Exchange: SMIRK no (optional) and 4-character grid square
QSO Points: 1 point per QSO with non-member; 2 points per QSO with SMIRK member
Multipliers: Each grid square
Score Calculation: Total score = total QSO points x total mults
Submit logs by: 1 August 2010
E-mail logs to: davidhcraig[at]verizon[dot]net
Mail logs to: David Craig, N3DB, 4931 Mariners Drive, Shadyside, MD 20764, USA
Find rules at: http://www.smirk.org/rules.htm

AGCW VHF/UHF Contest
14:00 – 16:59 UTC 19 June (144) and 17:00 – 18:59 UTC 19 June (432)
Mode: CW
Bands: 144 MHz, 432 MHz
Classes: Single Op
Max operating hours: 3 hours: 144 MHz; 2 hours: 432 MHz
Max power: A: 5 W; B: 5 – 50 W; C: >50 W
Exchange: RST, "/", serial no, "/", power class, "/" and 6-character grid locator
Work stations: Once per band
QSO Points: 1 point per km per QSO
Multipliers: (none)
Score Calculation: Total score = total QSO points
Submit logs by: 5 July 2010
E-mail logs to: vhf-uhf[at]agcw[dot]de
Mail logs to: Manfred Busch, DK7ZH, Ebachstr. 13, D-35716 Dietzhoelztal-Mandeln, Germany
Find rules at: http://www.agcw.org/en/?Contests:VHF-UHF_Contest

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West Virginia QSO Party
16:00 UTC 19 June to 02:00 UTC 20 June
Mode: CW, SSB, Digital
Bands: 80, 40, 20, 15 and 10 m
Classes: Single Op – Fixed – CW, SSB, Mixed – QRP, Low or High; Multi-Multi – Fixed – CW, SSB, Mixed – QRP, Low or High; Mobile – CW, SSB, Mixed – QRP, Low or High
Max power: HP: >100 watts; LP: 100 watts; QRP: 5 watts CW, 10 watts phone
Exchange: WV: RS(T) and county; non-WV: RS(T) and state, province or country
Work stations: Once per band per mode
QSO Points: 2 points per SSB QSO with WV mobile; 3 points per CW QSO with WV mobile; 1 point per SSB QSO with fixed; 2 points per CW QSO with fixed
Bonus: 100 points per QSO with W8WVA; WV Mobile Bonus: 100 points for each county activated; Fixed Station Bonus: 100 points for working a WV mobile in at least 5 counties
Multipliers: WV Stations: Each WV county, state, VE province, DXCC country once; non-WV Stations: Each WV county once
Score Calculation: Total score = (total QSO points x total mults) and bonus points
Submit logs by: 20 July 2010
E-mail logs to: wvqplogs[at]gmail[dot]com
Mail logs to: Jeffrey Woods, RT 1 Box 211A, Independence WV 26374, USA
Find rules at:
http://www.qsl.net/wvsarc/2010wvqp/wvqp2010.htm

Kid's Day Contest
18:00 - 24:00 UTC 19 June
Mode: SSB
Bands: 80, 40, 20, 17, 15, 12, 10 and 2 m repeaters
Classes: (none)
Exchange: Name, age, QTH and favourite colour
Submit logs by: 19 July 2010
E-mail logs to: (none)
Mail logs to: (see rules)
Find rules at:
http://www.arrl.org/contests/2010-kids-day-1

Feld Hell Sprint
20:00 – 22:00 UTC 19 June
Mode: Feld Hell
Bands: 160, 80, 40, 20, 15 and 10 m
Classes: (none)
Max power: 100 watts
Exchange: (see rules)
Work stations: Once per band
QSO Points: (see rules)
Bonus Points: (see rules)
Multipliers: Each state, province and country once only
Score Calculation: Total score = (total QSO points x total mults) and bonus points
Submit logs by: 1 July 2010
E-mail logs to: (none)
Post log summary at:
http://sites.google.com/site/feldhellclub/Home/contests
Mail logs to: (none)
Find rules at:
http://sites.google.com/site/feldhellclub/Home/contests

Run for the Bacon QRP Contest
01:00 – 03:00 UTC 21 June
Mode: CW
Bands: 160, 80, 40, 20, 15 and 10 m
Classes: Single Band; All Band
Max power: 5 watts
Exchange: RST, state, province or country and member no or power
Work stations: Once per band
QSO Points: 1 point per QSO with non-member; 3 points per QSO with member on same continent; 5 points per QSO with member on different continent
Multipliers: Each state, province or country once
Multiply mults by 2 if >50 members worked
Score Calculation: Total score = total QSO points x total mults
Submit logs by: 27 June 2010
E-mail logs to: (none)
Upload log at:
http://www.fpqrp.com/autolog.php
Mail logs to: (none)
Find rules at:

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http://www.fpqrp.com/fpqrprun.php

Next Week's Contests

SKCC Sprint, 00:00 - 02:00 UTC 23 June
RSGB 80 m SSB Club Championship, 19:00 - 20:30 UTC 24 June
His Majesty the King of Spain SSB Contest, 12:00 UTC 26 June to 12:00 UTC 27 June
Ukrainian DX DIGI Contest, 12:00 UTC 26 June to 12:00 UTC 27 June
Marconi Memorial HF Contest, 14:00 UTC 26 June to 14:00 UTC 27 June
ARRL Field Day, 18:00 UTC 26 June to 21:00 UTC 27 June
ARCI Milliwatt Field Day, 18:00 UTC 26 June to 21:00 UTC 27 June
SARL Digital Contest, 13:00 - 16:00 UTC 27 June

This week in History
The week starting Monday 14 June 2010

1215 - King John signs the Magna Carta at Runimede
1464 - King Louis XI of France commences first postal service
1752 - Benjamin Franklin flies his storm kite to prove electricity
1834 - Isaac Fischer of Springfield, VT, patents sandpaper
1837 - Victoria becomes Queen of Great Britain
1844 - Vulcanised rubber patented by C. Goodyear of New York City
1883 - Train service between Sydney and Melbourne begins
1896 - Prof Bragg demonstrates X-rays in Adelaide, Australia
1920 - First British public broadcast of Dame Nellie Melba concert
1951 - First commercial electronic computer, Bureau of Census, USA

Items used with acknowledgement to The ARRL Letter, Amateur Radio Newsline, OPDX Bulletin, 425 DX Bulletin, DXNL Bulletin, ARRL DX News, WIA-News, the RSGB News, Southgate ARC and Pete's DX Newsdesk.

Newsletter editors are most welcome to use material from HF Happenings, just remember to acknowledge the source (which could be any one of the names mentioned above). HF Happenings can be provided in MS Word format.

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